CITY OF WEST DES MOINES PLAN AND ZONING COMMISSION COMMUNICATION

Meeting Date: May 8, 2017

<u>Item:</u> Woodland Hills of West Des Moines Plat 3, West side of S. 91st Street, 550 feet south of

the Cascade Avenue and S 91st Street intersection – Subdivide the property into 14 postage stamp lots for construction of a detached townhome development – Kimberly

Development Corporation, LLC – PP-003129-2016/SP-003130-2016

Requested Action: Approval of Preliminary Plat and Site Plan

<u>Case Advisor</u>: J. Bradley Munford

Applicant's Request: Josh Trygstad with Civil Design Advantage, on behalf of the applicant Kimberly Development Corporation is requesting approval of a 4.20 acre Preliminary Plat to create 14 postage stamp lots. The applicant is also seeking approval of a Site Plan to allow construction of 14 townhomes and associated site improvements.

<u>History</u>: The City Council approved a rezoning request to establish the Tallyn's Reach PUD (aka Michael's Landing and/or Woodland Hills development) on May 22, 2006. On May 4, 2015, the City Council unanimously approved an amendment to the PUD Ordinance to remove the 55 year old minimum age qualification for Parcels F within the Woodland Hills development.

<u>City Council Subcommittee</u>: This item was presented at the July 11, 2016 and again at the May 1, 2017 Development and Planning City Council Subcommittee due to the delay in proceeding with approvals in 2016. The Subcommittee was supportive of the request.

<u>Staff Review and Comment</u>: This request was distributed to other City departments and other agencies for their review and comment. There are no outstanding issues. Staff would note the following:

- <u>Architecture</u>: Traditional Medium Density townhome developments have typically utilized one building design on all lots with minor changes in colors and materials to provide variation. With this development, the applicant intends to construct custom units tailored to individual buyers. Because the development is detached townhomes on individual lots, which for all practical purposes will be perceived as and feel like traditional detached single family, staff is comfortable with not all buildings being identical. Staff has indicated to the applicant that for visual continuity, there must be consistency in the architectural style implemented and compatibility in the materials and colors between the buildings. The submitted exterior elevations are considered precedent images that set agreed upon architectural minimums. The design for each building will be reviewed for compatibility with the images when submitted for building permits. If a house plan is determined to be out of character with the approved images, it will require approval as a Level 1 Minor Modification prior to issuance of the building permit.
- <u>Postage Stamp Lots:</u> The applicant is proposing a postage stamp lot for each unit. Building codes aim to maintain ten feet of separation between structures; separations less than 10' require different construction measures to address fire suppression measures. Staff recommends a condition of approval requiring a minimum five foot (5') setback from the lot boundary to the closest building element in order to provide for a minimum 10' separation.

<u>Comprehensive Plan Consistency</u>: The project has been reviewed for consistency with the Comprehensive Plan. Based upon that review, a finding has been made that the proposed project is consistent with the Comprehensive Plan in that the project is consistent with all of the goals and policies of the Comprehensive Plan and the land use map of the Comprehensive Plan.

<u>Findings</u>: This proposed project was distributed to various city departments for review and comment. Based upon that review, the following findings have been made on the proposed project:

- 1. The proposed development and use is consistent with the West Des Moines Comprehensive Plan in that the project has been reviewed for consistency with the Comprehensive Plan. Based upon that review, a finding has been made that the proposed project is consistent with the Comprehensive Plan in that the project is consistent with all of the goals and policies of the Comprehensive Plan.
- 2. The proposed development and use does assure compatibility of property uses within the zone and general area in that this project was reviewed by various City Departments for compliance with the Zoning Ordinance.
- 3. All applicable standards and conditions have been imposed which protects the public health, safety and welfare in that this project was reviewed by various City Departments and public agencies for compliance with the various state and local regulations. Based upon that review a finding is made that the project has been adequately conditioned to protect the health, welfare and safety of the community.
- 4. There is adequate on-site and off-site public infrastructure to support the proposed development in that this project was reviewed by various public agencies and City Departments and public utilities to ensure that either the petitioner will construct or the project has been conditioned to construct adequate public infrastructure to serve the development.
- 5. The proposed development and use has met the requirements contained in the City Code in that this project was reviewed by various City Departments and the project has complied with or has been conditioned to comply with all City Code requirements.
- 6. The proposed development and use is in keeping with the scale and nature of the surrounding neighborhood in that the proposed project is consistent with the zoning designation and Comprehensive Plan which designates this site as suitable for development such as that proposed by this project.

<u>Staff Recommendation And Conditions Of Approval</u>: Based upon the preceding review and a finding of consistency with the goals and policies of the Comprehensive Plan, staff recommends the Plan and Zoning Commission adopt a resolution recommending the City Council approve the Preliminary Plat to create 14 postage stamp lots and approve the Site Plan to allow the development of a 14 unit townhome development and associated site improvements, subject to the applicant meeting all City Code requirements and the following:

- 1. The applicant acknowledging that there shall be consistency in architectural style and compatibility in materials and colors between all homes. At the time of Building Permit submittal, should a home design be determined by staff to be is inconsistent to the approved images provided with this site plan, staff approval of a Level 1 Minor Modification Permit Application will be necessary prior to the issuance of a building permit, including footing and foundation permit; and
- 2. A minimum of five feet (5') as measured from the lot line of the postage stamp lot to the closest element of the dwelling building, including roof overhangs, bump-outs, bay windows, window wells, etc. shall be provided.

Applicant: Kimberly Development Corporation

Bill Kimberly

2875 N. Ankeny Boulevard Suite22

Ankeny, Iowa 50023 Bill@kimdev.com

Applicant Representative: Civil Design Advantage LLC

Josh Trygstad, P.E

3405 SE Crossroads Drive, Suite G

Grimes, IA

JoshT@cda-eng.com

ATTACHMENTS:

Attachment A - Plan and Zoning Commission Resolution

Exhibit A - Conditions of Approval

Attachment B - Location Map

Attachment C - Preliminary Plat / Site Plan Attachment D - Architecture Concepts

RESOLUTION NO. PZC-17-042

A RESOLUTION OF THE PLAN AND ZONING COMMISSION OF THE CITY OF WEST DES MOINES, RECOMMENDING TO THE CITY COUNCIL THAT IT APPROVE A PRELIMINARY PLAT TO SUBDIVIDE THE PROPERTY INTO 14 LOTS AND APPROVE A SITE PLAN FOR THE CONSTRUCTION OF 14 DETACHED TOWNHOMES

WHEREAS, pursuant to the provisions of Title 10, Chapter 1 et seq, of the West Des Moines Municipal Code, the applicant, Kimberly Development Corporation, has requested approval for a Preliminary Plat for that approximately 4.20 acre site generally located on the west side of S. 91st Street, approximately 550 feet south of the Cascade Avenue and S 91st Street intersection to subdivide the property into 14 postage stamp lots.

WHEREAS, pursuant to the provisions of Title 9, Chapter 1 et seq, of the West Des Moines Municipal Code, the applicant, Kimberly Development Corporation has requested approval of a Site Plan for that approximately 4.20 acre site generally located on the west side of S. 91st Street, approximately 550 feet south of the Cascade Avenue and S 91st Street intersection to construct 14 townhomes and associated site improvements;

WHEREAS, studies and investigations were made, and staff reports and recommendations were submitted which is made a part of this record and herein incorporated by reference;

WHEREAS, on May 8, 2017, this Commission held a duly-noticed public meeting to consider the applications for the Preliminary Plat and Site Plan;

NOW, THEREFORE, THE PLAN AND ZONING COMMISSION OF THE CITY OF WEST DES MOINES DOES RESOLVE AS FOLLOWS:

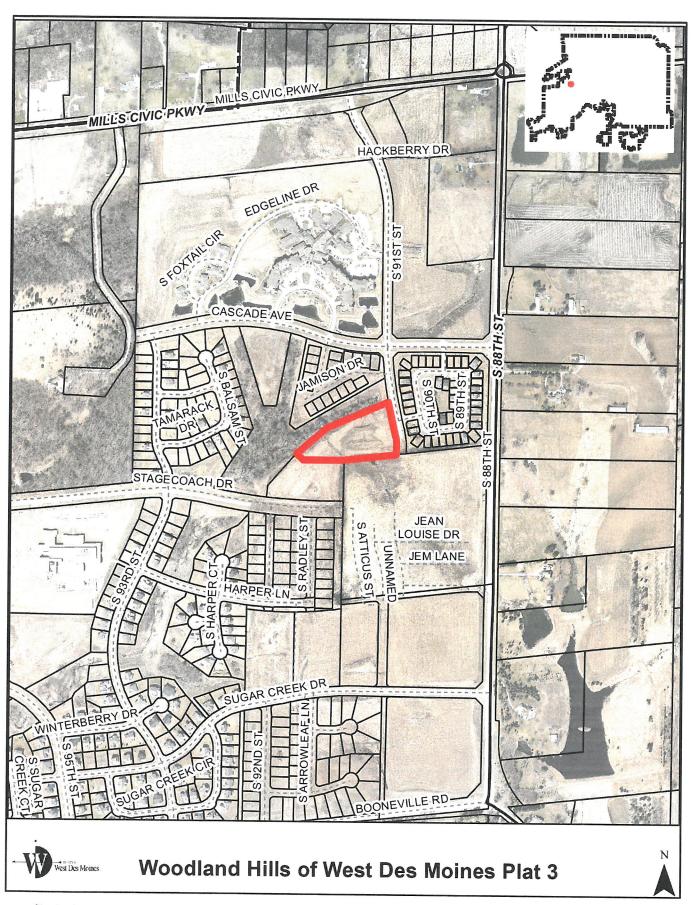
<u>SECTION 1</u>. The findings, for approval, in the staff report, dated May 8, 2017, or as amended orally at the Plan and Zoning Commission meeting of May 8, 2017, are adopted.

SECTION 2. Preliminary Plat/Site Plan to subdivide the property into 14 lots and allow construction of 14 townhomes is recommended to the City Council for approval, subject to compliance with all the conditions in the staff report, dated May 8, 2017, including conditions added at the meeting, and attached hereto as Exhibit "A". Violation of any such conditions shall be grounds for revocation of the permit, as well as any other remedy which is available to the City.

| PASSED AND ADOPTED on May 8, 2017. | |
|---|---|
| ATTEST: | Craig Erickson, Chairperson Plan and Zoning Commission |
| Recording Secretary | |
| I HEREBY CERTIFY that the foregoing resolution of the City of West Des Moines, Iowa, at a regular meeting | on was duly adopted by the Plan and Zoning Commission held on May 8, 2017, by the following vote: |
| AYES: | |
| NAYS: | |
| ABSTENTIONS: ABSENT: | |
| ATTEST: | |
| Recording Secretary | |

EXHIBIT A CONDITIONS OF APPROVAL

- 1. The applicant acknowledging that there shall be consistency in architectural style and compatibility in materials and colors between all homes. At the time of Building Permit submittal, should a home design be determined by staff to be is inconsistent to the approved images provided with this site plan, staff approval of a Level 1 Minor Modification Permit Application will be necessary prior to the issuance of a building permit, including footing and foundation permit; and
- 2. A minimum of five feet (5') as measured from the lot line of the postage stamp lot to the closest element of the dwelling building, including roof overhangs, bump-outs, bay windows, window wells, etc. shall be provided.



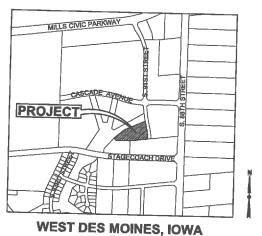
PRELIMINARY PLAT / SITE PLANS FOR:

WOODLAND HILLS OF WEST DES MOINES PLAT 3

WEST DES MOINES, IOWA

VICINITY MAP

NOT TO SCALE



INDEX OF SHEETS

| NO. | DESCRIPTION |
|-----|--|
| 1 | TITLE SHEET |
| 2-3 | TYPICAL SECTION AND DETAILS |
| 4 | QUANTITIES, BID ITEM REFERENCE NOTES AND GENERAL NOTES |
| 5 | DEMOLITION PLAN - TOPOGRAPHIC SURVEY |
| 6 | DIMENSION PLAN |
| 7-9 | PLAN AND PROFILE |
| 10 | GRADING PLAN |
| 11 | LANDSCAPE PLAN |
| | |

LEGAL DESCRIPTION

OUTLOT 'K', CORRECTED MICHAEL'S LANDING PLAT 1, BEING AN OFFICIAL PLAT OF THE CITY OF WEST DES MOINES, DALLAS COUNTY, IOWA AND CONTAINING 4.2D ACRES (182,835 S.F.).

PROPERTY SUBJECT TO ANY AND ALL EASEMENTS OF RECORD.

ADDRESSES

9107-9195 GREENWAY DRIVE

COMPREHENSIVE PLAN LAND USE

MEDIUM DENSITY RESIDENTIAL

OWNER / APPLICANT

KIMBERLEY DEVELOPMENT CORPORATION CONTACT: BILL KIMBERLY 2785 NORTH ANKENY BOULEVARD, SUITE 22 ANKENY, 10WA 50023 PH: (515) 963—8335

ENGINEER/ SURVEYOR

CIVIL DESIGN ADVANTAGE CONTACT: JOSH TRYCSTAD 3405 SE CROSSROADS DRIVE, SUITE G GRIMES, IOWA 50111 PH. (515) 369-4400 FX. (515) 369-4410

ZONING

EXISTING AND PROPOSED: TALLYN'S REACH P.U.D. (PARCEL F: MEDIUM DENSITY RESIDENTIAL)

SUBMITTAL DATES

FIRST SUBMITTAL: 06/28/16 08/16/16 09/15/16 SECOND SUBMITTAL: THIRD SUBMITTAL: FOURTH SUBMITTAL:

BENCHMARKS

INTERSECTION OF MILLS CIVIC PARKWAY (335th STREET, DALLAS INTERSECTION OF MILLS CIVIC PARKWAY (335th STREET, DALLAS COUNTY), AND SOUTH 88th STREET (X AVENUE, DALLAS COUNTY), NORTHEAST CORNER OF INTERSECTION, 208 FEET EAST OF CENTERLINE OF 88th STREET, 49 FEET NORTH OF THE CENTERLINE OF MILLS CIVIC PARKWAY, 2 FEET SOUTH OF THE FENCE LINE, STANDARD BENCHMARK, ELEV. = 219.04 (WEST DES MOINES

WDM NO 37

WOM NO 37
SOUTH 88th STREET, 2640± FEET SOUTH OF MILLS CIVIC PARKWAY,
32 FEET EAST OF THE CENTERLINE OF SOUTH 88th STREET (X
AVENUE, DALLAS COUNTY), ON THE FENCE LINE TO THE WEST (1/4
SECTION LINE), 1 FOOT WEST OF THE NORTH/SOUTH FENCE LINE,
STANDARD BENCHMARK. ELEV. = 194.80 (WEST DES MOINES DATUM)

DATE OF SURVEY

MAY 2016

ONE CALL 1-800-292-8989 www.iowaonecall.com



3405 SE CROSSROADS DR. SUITE G GRIMES, IOWA 50111 PH: (515) 369-4400 Fax: (515) 369-4410 PROJECT NO. 1604.172

GENERAL LEGEND

| PROPOSED | EXISTING |
|--|--|
| SECTION LINE | |
| CENTER LINE | SANITARY MANHOLE S |
| RIGHT OF WAY | WATER VALVE BOX |
| PERMANENT EASEMENT | FIRE HYDRANT p WATER CURB STOP CS |
| TEMPORARY EASEMENT | WATER COME STOP |
| TYPE SW-501 STORM INTAKE | METT Over |
| | STORM SEWER MANHOLE ST |
| TYPE SW-503 STORM INTAKE | STORM SEWER SINGLE INTAKE |
| TYPE SW-505 STORM INTAKE | STORM SEWER DOUBLE INTAKE |
| TYPE SW-506 STORM INTAKE | FLARED END SECTION |
| TYPE SW-506 STORM INTAKE | DECIDUOUS TREE |
| TYPE SW-513 STORM INTAKE | CONIFEROUS TREE |
| | DECIDUOUS SHRUB |
| TYPE SW-401 STORM MANHOLE | CONIFEROUS SHRUB |
| TYPE SW-402 STORM MANHOLE ST | ELECTRIC POWER POLE - |
| | GUY ANCHOR |
| 9 | STREET LIGHT |
| STORM/SANITARY CLEANOUT | POWER POLE W/ TRANSFORMER 🚓 |
| WATER VALVE | UTILITY POLE W/ LIGHT |
| FIRE HYDRANT ASSEMBLY | ELECTRIC BOX DE |
| SIGN | ELECTRIC TRANSFORMER |
| DETECTABLE WARNING PANEL | ELECTRIC MANHOLE OR VAULT (E) |
| WATER CURB STOP ⊗ | TRAFFIC SIGN |
| STORM SEWER STRUCTURE NO. | TELEPHONE JUNCTION BOX |
| STORM SEWER STRUCTURE NO. | TELEPHONE MANHOLE/VAULT (T) |
| STORM SEWER PIPE NO. (L-10) | TELEPHONE POLE |
| \sim | GAS VALVE BOX |
| SANITARY SEWER STRUCTURE NO. (S-10) | CABLE TV JUNCTION BOX |
| ANITARY SEWER PIPE NO. (P-10) | CABLE TV MANHOLE/VAULT (w) |
| 130 | MAIL BOX |
| SANITARY SEWER WITH SIZE | BENCHMARK o [®] |
| SANITARY SERVICE — s——s——s | SOIL BORING ♣™ |
| TORM SEWER | UNDERGROUND TV CABLE |
| STORM SERVICE —— ST —— ST — | GAS MAIN G |
| VATERMAIN WITH SIZE ——8"W —— | FIBER OPTICF0 |
| VATER SERVICE ———————————————————————————————————— | UNDERGROUND TELEPHONE — - T — |
| SAWCUT (FULL DEPTH) | OVERHEAD ELECTRIC ———————————————————————————————————— |
| ILT FENCE | UNDERGROUND ELECTRIC E |
| ISE AS CONSTRUCTED (UAC) | FIELD TILE ———————————————————————————————————— |
| IINIMUM PROTECTION ELEVATION MPE | SANITARY SEWER W/ SIZE |
| OP OF PROPOSED GROUND TG | STORM SEWER W/ SIZE15" RCP |
| | WATER MAIN W/ SIZE |

PARKING SUMMARY

| PARKING REQUIRED (BY CODE): | 2 STALLS/UNIT |
|---|------------------------------------|
| NUMBER OF UNITS: | 14 UNITS |
| TOTAL PARKING REQUIRED: | 28 STALLS |
| Parking Provided: - Driveways - Driveways (14 3—Car Garages) - Off-Street Parking | 28 STALLS 42 STALLS 4 STALLS |
| TOTAL PARKING PROVIDED: | 74 STALLS |

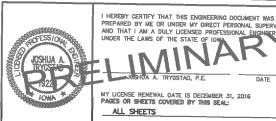
PROPOSED DENSITY

14 UNITS / 4.20 ACRES = 3.33 UNITS/ACRE

IMPERVIOUS AREA

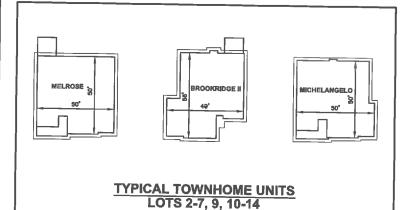
76,722 S.F.

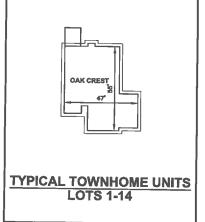
THE 2016 EDITION OF THE WEST DES MOINES STANDARD CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS, THE 1993 DES MOINES METRO DESIGN STANDARDS WITH THE WEST DES MOINES ADDEDIDA, AND THE WEST DES MOINES WATER WORKS STANDARD CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS SHALL APPLY TO ALL WORK ON THIS PROJECT UNLESS OTHERWISE NOTED.

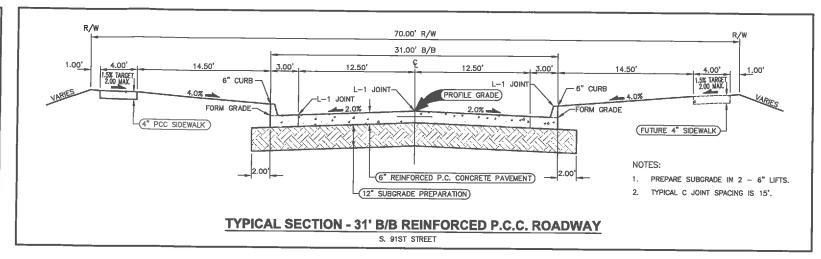


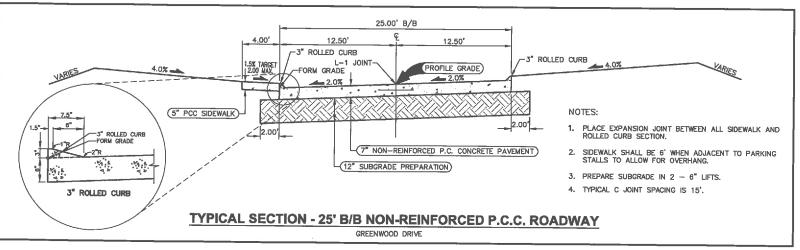
- 1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI © 28 DAYS, CONTAIN 4% MIN. 6% MAX. AIR ENTRAINMENT AND BE PLACED WITH A 3.50° 4.00° SLUMP IN ACCORDANCE WITH ACI 301.
- 2. REINFORCING STEEL REBARS SHALL CONFORM TO ASTM A615, GRADE 60.
- 3. ANCHOR BOLTS SHALL CONFORM TO ASTM A193, GRADE BBM, TYPE 316 STAINLESS STEEL.

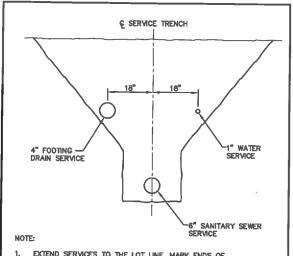
MAILBOX CLUSTER PAD DETAIL





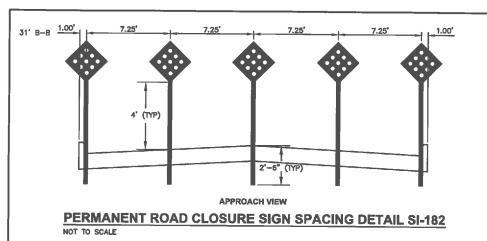


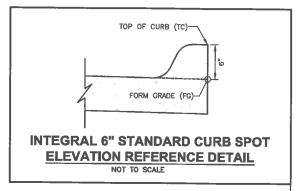




- 2.
- EXTEND SERVICES TO THE LOT LINE, MARK ENDS OF SERVICES WITH STEEL POSTS.
 CONTRACTOR SHALL COORDINATE ALL SERVICE LINE CROSSINGS WITH MAIN UTILITIES.
 STOP BOX TO BE LOCATED IN THE OUTLOT AND BE A MINIMUM OF 10 FEET FROM STRUCTURES.

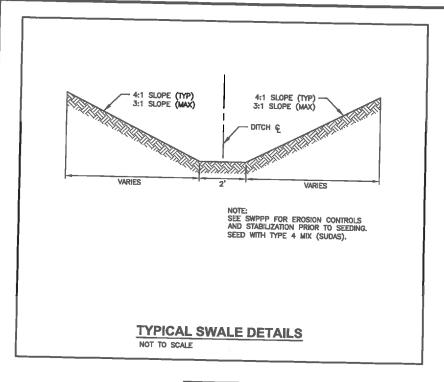
TYPICAL SERVICE INSTALLATION DETAILS NOT TO SCALE

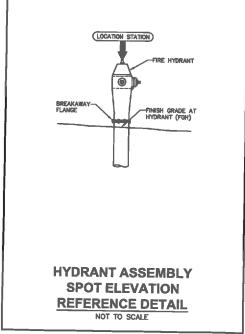


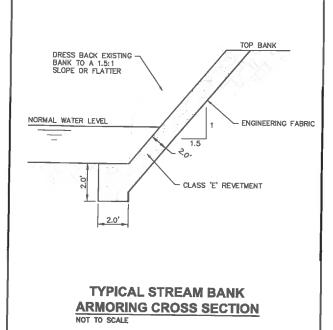


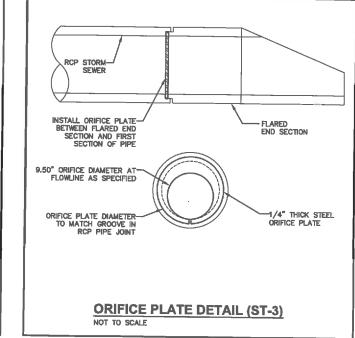
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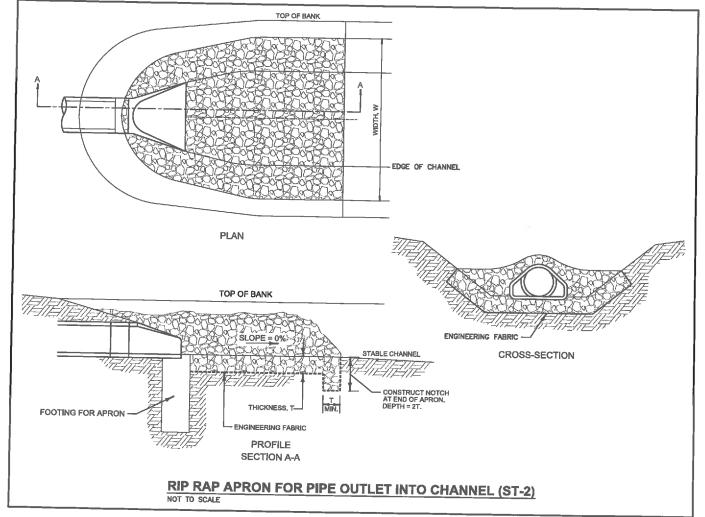
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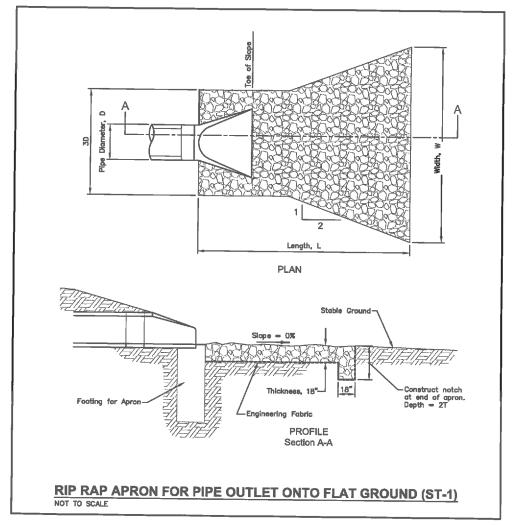














WOODLAND HILLS OF WEST DES MOINES
PLAT 3
TYPICAL SECTIONS AND DETAILS
WEST DES MOINES, LOW

3405 S.E. CROSSROADS DRIVE, SUITE G GRIMES, IOWA 50111 PHONE: (515) 369-4400 FAX: (515) 369-4410 ENGINEER: JAT TECH: MDM

| TEM NO. | ITEM | UNIT | PUBLIC | PRIVAT |
|---------------|--|--|--------|--------|
| 1 | CLEARING AND GRUBBING | LS | 0.25 | 0.75 |
| 2 | TOPSOIL STRIP, SALVAGE AND SPREAD | CY | 371 | 4016 |
| 3 | PAVEMENT REMOVAL | SY | 252 | 78 |
| 4 | EXCAVATION | LS | 0.25 | 0.75 |
| 5 | SUBGRADE PREPARATION | CY | 753 | 2220 |
| 6 | SANITARY SEWER, 10 IN. DIA | LF | 486 | |
| 7 | SANITARY MANHOLE, TYPE SW-301, 48 IN. DIA. | EA | 2 | |
| 8 | SANITARY SEWER SERVICE, 6 IN. DIA | EA | | 14 |
| 9 | SANITARY MANHOLE REMOVAL | EA | 2 | |
| 10 | CONNECTION TO EXISTING SANITARY MANHOLE | EA | 2 | |
| 11 | SANITARY MANHOLE ADJUSTMENT, MAJOR | EA | 1 | |
| 12 | ABANDON SANITARY SEWER, 10 IN. DIA. | LF | 680 | |
| 13 | STORM SEWER, SUMP PUMP SERVICE LINE, 4 IN. DIA | EA | | 14 |
| 14 | STORM SEWER, 8 IN. HDPE SUMP LINE | LF | | 279 |
| 15 | STORM SEWER, 12 IN. RCP | LF I | | 94 |
| 16 | STORM SEWER, 15 IN. RCP | - F | | 344 |
| 17 | STORM SEWER, 12 IN. RCP, APRON | EA | | 2 |
| 18 | STORM SEWER, 15 IN. RCP, APRON | EA | | |
| 19 | ORIFICE PLATE | EA | | |
| 20 | STORM MANHOLE, TYPE SW-401, 48 IN. DIA | EA | | 2 |
| 21 | INTAKE, TYPE SW-501 (TYPE M-A INTAKE) | EA | | |
| 22 | INTAKE, TYPE SW-505 (TYPE M-D INTAKE) | EA | | |
| 23 | STORM SEWER, SUMP LINE CLEANOUT | EA | | |
| 24 | SUBDRAIN, CORRUGATED PVC, 6 IN. | LF. | 112 | 1 |
| 25 | STORM SEWER, SUMP LINE CLEANOUT | EA | 1 | |
| 26 | P.C.C. PAVEMENT, 7 IN. NON-REINFORCED | SY | | 0075 |
| 27 | P.C.C. PAVEMENT, 6 IN. REINFORCED | SY | 617 | 2035 |
| 28 | P.C.C. SIDEWALK, 4 IN. | SY | 202 | |
| 29 | P.C.C. SIDEWALK, 5 IN. | SY | 202 | 747 |
| 30 | DETECTABLE WARNING | SF | - 10 | 317 |
| 31 | WATER MAIN, 8 IN. DIA | LF LF | 16 | 404 |
| 32 | WATER MAIN, 12 IN. DIA | LF LF | 77 | 424 |
| 33 | TAPPING SLEEVE AND VALVE, 12 IN. x 8 IN. | EA | 33 | |
| 34 | FIRE HYDRANT ASSEMBLY | EA | | 1 |
| 35 | REMOVE BLOWOFF HYDRANT | EA | - ! | 3 |
| 36 | WATER SERVICE, 1 IN. DIA | - | 1 | |
| 37 | SEEDING, FERTILIZING AND MULCHING | EA | | 14 |
| 38 | PERMANENT ROAD CLOSURE (SI-182) | AC | 0.35 | 4.51 |
| 39 | RIP RAP, CLASS E | EA | 1 | |
| 40 | MAILBOX PAD | TON | | 525 |
| 41 | TRAFFIC CONTROL | EA | | 1 |
| | | LS | 0.50 | 0.50 |
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ESTIMATE REFERENCE INFORMATION

| | Data listed below is for informational purpose only and shall not constitute a basis for any extra work orders. | |
|----------|---|--|
| ITEM NO. | DESCRIPTION | |
| | THE MOST RECENT EDITION OF THE CITY OF WEST DES MOINES STANDARD CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS SHALL APPLY TO ALL WORK ON THIS PROJECT UNLESS OTHERWISE NOTED. WEST DES MOINES WATER WORKS SHALL REFERENCE THE 2016 EDITION OF SUDAS WITH THE WEST DES MOINES WATER WORKS GENERAL SUPPLEMENTAL SPECIFICATIONS TO SUDAS (HTTP://www.wddww.com/connection-specs.aspx). | |
| | ALL REFERENCES TO STANDARD DRAWINGS ARE TO THE THE CITY OF WEST DES MOINES STANDARD CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS OR WEST DES MOINES WATER WORKS STANDARD CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS. | |
| 1 | CLEAR AND GRUB ALL AREAS AFFECTED BY GRADING OPERATIONS. THE CONTRACTOR SHALL FIELD VERIFY CLEARING AND GRUBBING NEEDS PRIOR TO BIDDING. REMOVAL OF ALL FENCES AND TREES INCLUDED IN THIS BID ITEM. ALL MATERIAL THAT IS REMOVED FROM THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR. | |
| 2 | STRIP, SALVAGE AND SPREAD THE TOP 6 INCHES OF SOIL IN ALL DISTURBED AREAS. THE TOP 6 INCHES OF SOIL TO BE RESPREAD SHALL BE FREE OF ROCK AND DEBRIS AND BE SUITABLE FOR THE GROWTH OF GRASS. | |
| 3 | REMOVE PAVEMENT AT GREENWOOD DRIVE AND 91ST STREET TIE-IN AND 91ST STREET AT SOUTH END OF PROJECT. PAVEMENT REMOVAL NEEDED AT FOR SANITARY SEWER CONNECTION AT 91ST STREET AND GREENWOOD DRIVE. ALL SAWCUT SHALL BE CONSIDERED INCIDENTAL. | |
| 5 | REFER TO SHEET 2 FOR TYPICAL LOCATIONS AND THICKNESS. COMPACT THE TOP 12 INCHES OF SUBGRADE TO NOT LESS THAN 95% MAXIMUM STANDARD PROCTOR DRY DENSITY WITH A MOISTURE CONTENT AS SPECIFIED IN THE GEOTECHNICAL REPORT. SUBGRADE TO BE PREPARED IN 2 — 6 INCH LIFTS. | |
| 6-23 | REFER TO STANDARD DRAWINGS 4.1 AND 4.2 FOR BEDDING DETAILS. GRANULAR PIPE BEDDING AND 45' BENDS SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. | |
| 6 | ALL PUBLIC SEWERS CONSTRUCTED AS PART OF THIS PLAT SHALL BE TELEVISED AS PART OF THE FINAL INSPECTION. PROVIDE COPY TO WOM PUBLIC WORKS IN DVD FORMAT. | |
| 7 | REFER TO STANDARD DRAWINGS 4.3 AND 4.4 FOR SANITARY SEWER MANHOLE CONSTRUCTION DETAILS. REFER TO STANDARD DRAWINGS 4.8 AND 4.9 FOR TYPE A AND TYPE B CASTING DETAILS. TYPE B CASTING REQUIRED FOR ALL MANHOLES IN PAVEMENT. ALL MANHOLES NEAR PAVEMENT NEED ROTATED TO MAXIMIZE DISTANCE BETWEEN PAVEMENT AND CASTING. REFER TO STANDARD DRAWING 7.16 FOR TYPICAL MANHOLE ASSEMBLY IN PAVEMENT DETAILS. | |
| 8,13,36 | REFER TO DETAIL ON SHEET 2. MARK ENDS OF SERVICES WITH STEEL POSTS. | |
| 8 | REFER TO STANDARD DRAWINGS 4.5 AND 4.6 FOR SANITARY SEWER SERVICE DETAILS. | |
| 9 | REFER TO DEMOLITION PLAN ON SHEET 5 FOR LOCATION. MATERIAL THAT IS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. CASTINGS TO BECOME PROPERTY OF THE CITY. | |
| 13 | REFER TO STANDARD DRAWING 5.15 FOR SUMP PUMP DRAIN LINE CONSTRUCTION DETAILS. | |
| 15-16 | PIPE LENGTH INCLUDES APRONS. | |
| 17-18 | REFER TO STANDARD DRAWING 5.13 FOR APRON DETAILS. CONCRETE FOOTING AND APRON GUARD REQUIRED ON ALL APRON SECTIONS. FOOTING AND APRON GUARD SHALL BE CONSIDERED INCIDENTAL. | |
| 19 | REFER TO ORIFICE PLATE DETAIL ON SHEET 3. ORIFICE PLATE REQUIRED ON ST-3. | |
| 20 | REFER TO PLAN AND PROFILE SHEETS FOR MINIMUM INSIDE DIAMETER OF MANHOLES. REFER TO STANDARD DRAWING 5.1 FOR CONSTRUCTION DETAILS. REFER TO STANDARD DRAWING 5.8 AND 5.9 FOR TYPE E AND TYPE F CASTING REQUIRED FOR ALL CASTINGS IN PAYEMENT. ALL MANHOLES NEAR PAYEMENT NEED TO BE ROTATED TO MAXIMIZE DISTANCE BETWEEN PAYEMENT AND CASTING. | |

ESTIMATE REFERENCE INFORMATION

| ITEM NO. | DESCRIPTION |
|----------|--|
| 21-22 | REFER TO STANDARD DRAWING NO. 7.15 FOR INTAKE ROYOUT DETAILS. REFER TO STANDARD DRAW |
| | NO. 5.8 FOR TYPE E STORM SEWER CASTING DETAILS AND STANDARD DRAWING NO. 5.11 FOR TYPE INTAKE CASTING DETAILS. |
| 21 | REFER TO STANDARD DRAWING 5.2 FOR TYPE M-A INTAKE CONSTRUCTION DETAILS. |
| 22 | REFER TO STANDARD DRAWING 5.4 FOR TYPE M-D INTAKE CONSTRUCTION DETAILS. |
| 23 | REFER TO STANDARD DRAWING 5.17 FOR CLEAN OUT CONSTRUCTION DETAILS. PRICE BID INCLUDES BENDS, PIPE, CLEANOUT, FRAME AND COVER, AND CONCRETE COLLAR. |
| 26-27 | REFER TO STANDARD DRAWING 7.2, 7.13 AND 7.14 FOR TYPICAL PAVEMENT REINFORCEMENT DETAILS. REFER TO STANDARD DRAWING 7.5 FOR CURB DETAILS. REFER TO STANDARD DRAWING 7.6 AND 7.7 FOR JOINT DETAILS. REFER TO STANDARD DRAWING 7.6 AND 7.3 FOR TYPICAL HANDICAP PROP DETAILS. INSTALL HANDICAP DROP CURBS AT ALL FUTURE SIDEWALK LOCATIONS. INTEGRAL CURB, SAWCUTS, JOINTS AND SEALING SHALL BE CONSIDERED INCIDENTAL. TYPICAL C AND CD JOINT SPACING SHALL BE 15 FEET. |
| 28,30 | REFER TO ACCESSIBLE RAMP DETAIL ON SHEET 3 FOR CONSTRUCTION DETAILS. |
| 31-36 | REFER TO FIG. 3010.101 — TRENCH BEDDING AND BACKFILL ZONES AND FIG. 3010.104 — PRESSURE PIPE TRENCH BEDDING FOR BEDDING AND BACKFILL GRANULAR PIPE BEDDING MATERIAL SHALL BE CONSIDERED INCIDENTAL. REFER TO FIG. 5010.101 FOR THRUST BLOCK DETAILS, REFER TO GENERA SUPPLEMENTAL SPECIFICATIONS FOR TRACER WIRE INFORMATION. CONNECTIONS TO EXISTING WATER MAIN, ALL FITTINGS, PIPE BEDDING MATERIAL, POLYETHYLENE ENCASEMENT, THRUST BLOCKS, AND TRACER WIRE SYSTEM SHALL BE CONSIDERED INCIDENTAL. ALL WATER MAIN SHALL BE INSTALLED AMINIMUM OF 5.5 FEET BELOW FINISHED GRADE. |
| 34–35 | REFER TO FIG. 5020.201 — FIRE HYDRANT ASSEMBLY FOR FIRE HYDRANT CONSTRUCTION DETAILS. INCLUDES ANCHORING TEE, ANCHORING ELBOW, GATE VALVE, VALVE BOX, ANCHORING PIPE, ANCHOR COUPLING, ELBOWS, TRACER WIRE STATION, FIRE HYDRANT AND THUST BLOCKS. CONCRETE FOR THRUST BLOCKS SHALL BE CONSIDERED INCIDENTAL. THE REVISED TRACER WIRE AND HYDRANT DETAILS WITHIN THE GENERAL SUPPLEMENTAL SPECIFICATIONS SHALL APPLY. |
| 36 | INCLUDES WATER SERVICE, CORPORATION VALVE, AND STOP BOXES. |
| 37 | SEED, FERTILIZE AND MULCH ALL DISTURBED AREAS. |
| 38 | REFER TO IOWA DEPARTMENT OF TRANSPORTATION STANDARD ROAD PLAN SI-182 FOR DETAILS AND PREMANENT ROAD CLOSURE SIGN SPACING DETAIL SI-182 ON SHEET 2 FOR SPACING. SIGNS SHALL BE BLACK DIAMOND WITH RED DOTS. |
| 39 | REFER TO DETAIL ON SHEET 3 — TYPICAL STREAM BANK ARMORING CROSS SECTION, RIP RAP APROFOR OUTLOT ONTO FLAT GROUND AND RIP RAP APRON FOR PIPE OUTLOT INTO CHANNEL FOR CONSTRUCTION INFORMATION. PLACE CLASS E RIP RAP A MINIMUM OF 1.5 FOOT THICK (2.0 FOOT I STREAM BANK). INSTALL FILTER FABRIC UNDER ALL RIP RAP. FILTER FABRIC SHALL BE CONSIDERING INCIDENTAL. |
| 40 | REFER TO MAILBOX PAD DETAILS ON SHEET 2. MAILBOX PADS TO BE INSTALLED WHEN SIDEWALKS ARE CONSTRUCTED. |
| 41 | ALL TEMPORARY OR PERMANENT TRAFFIC CONTROL DEVICES SHOWN ON THE PLANS SHALL BE IN ACCORDANCE TO LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS. |

GENERAL NOTES

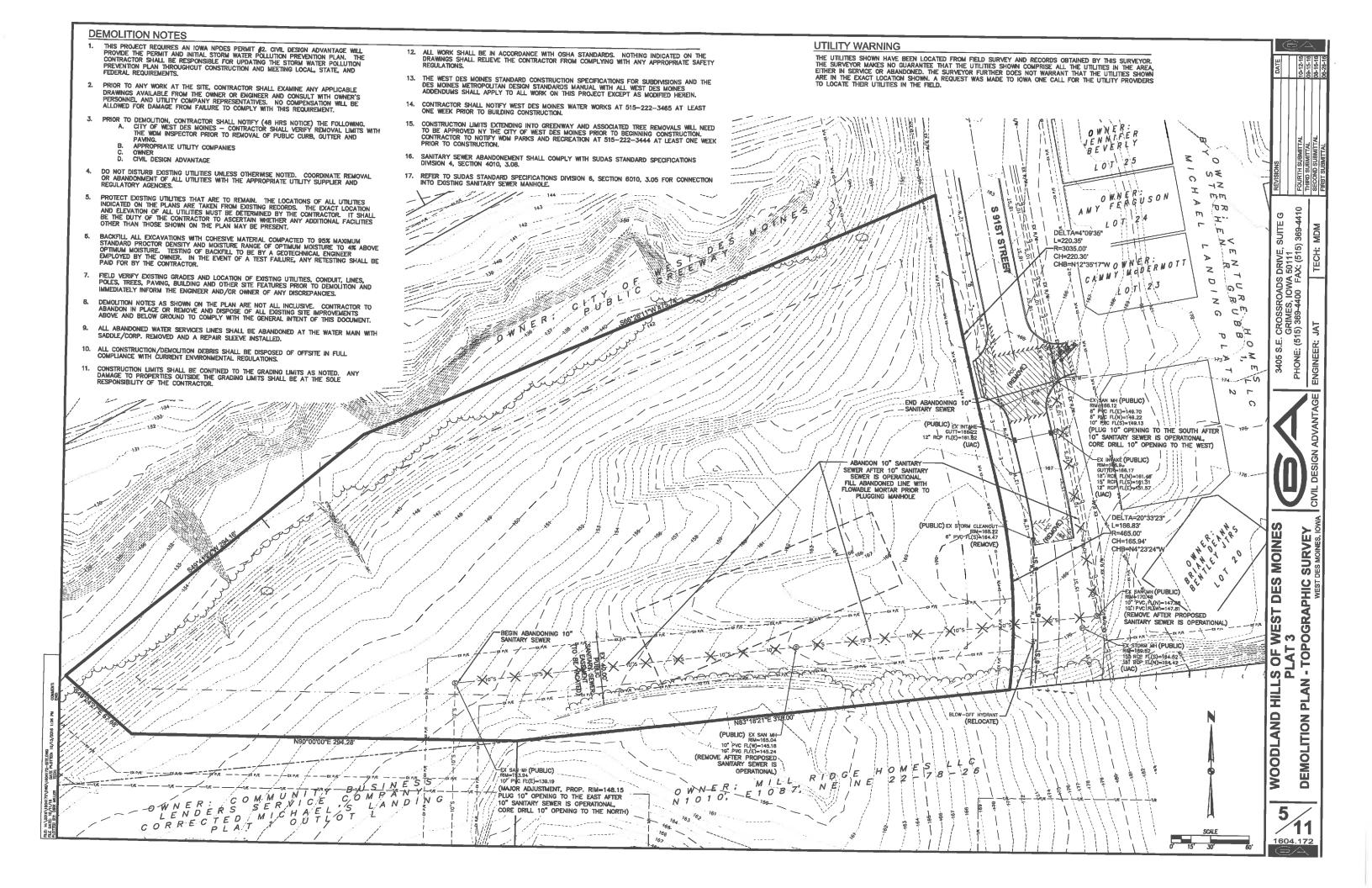
- WHERE PUBLIC UTILITY FOXURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERMICES, UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE, HERE LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.
- THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT 800-292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
- 2. AT LEAST ONE WEEK PRIOR TO CONSTRUCTION WITHIN PUBLIC R.O.W./EASEMENTS AND/OR ANY CONNECTIONS TO PUBLIC SEWERS AND STREETS, THE CONTRACTOR SHALL CONTACT THE WOM CONSTRUCTION DIMBION CLINT CARPENTER (222-3480) TO OBTAIN APPLICABLE CITY PERMITS THAT MAY BE NECESSARY. IT IS IMPORTANT TO NOTE THAT CITY EMGINEER'S APPROVAL OF THESE CONSTRUCTION PLANS IS SUBJECT TO APPLICANT OBTAINING ALL NECESSARY EASEMENTS/AGREEMENTS AND APPLICABLE DEPOMITS.
- THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY AREAS OF PAVEMENT OR SIDEWALK NOT TO BE REMOVED THAT IS DAMAGED DUE TO OPERATING EQUIPMENT ON THE PAVEMENT OR SIDEWALK.
- THE CONTRACTOR SHALL APPLY NECESSARY MOISTURE TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.
- ALL WORK MUST BE DONE IS ACCORDANCE WITH THE CITY OF WEST DES MOINES WATER WORKS STANDARD CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS. CONTRACTOR TO NOTIFY WEST DES MOINES WATER WORKS (222-3465) A MINIMUM OF ONE WEEK PRIOR TO COMMENCING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF WORK BETWEEN ALL SUPPLIERS AND SUBCONTRACTORS INVOLVED IN THE PROJECT. INCLUDING STAGING OF CONSTRUCTION DETAILS.

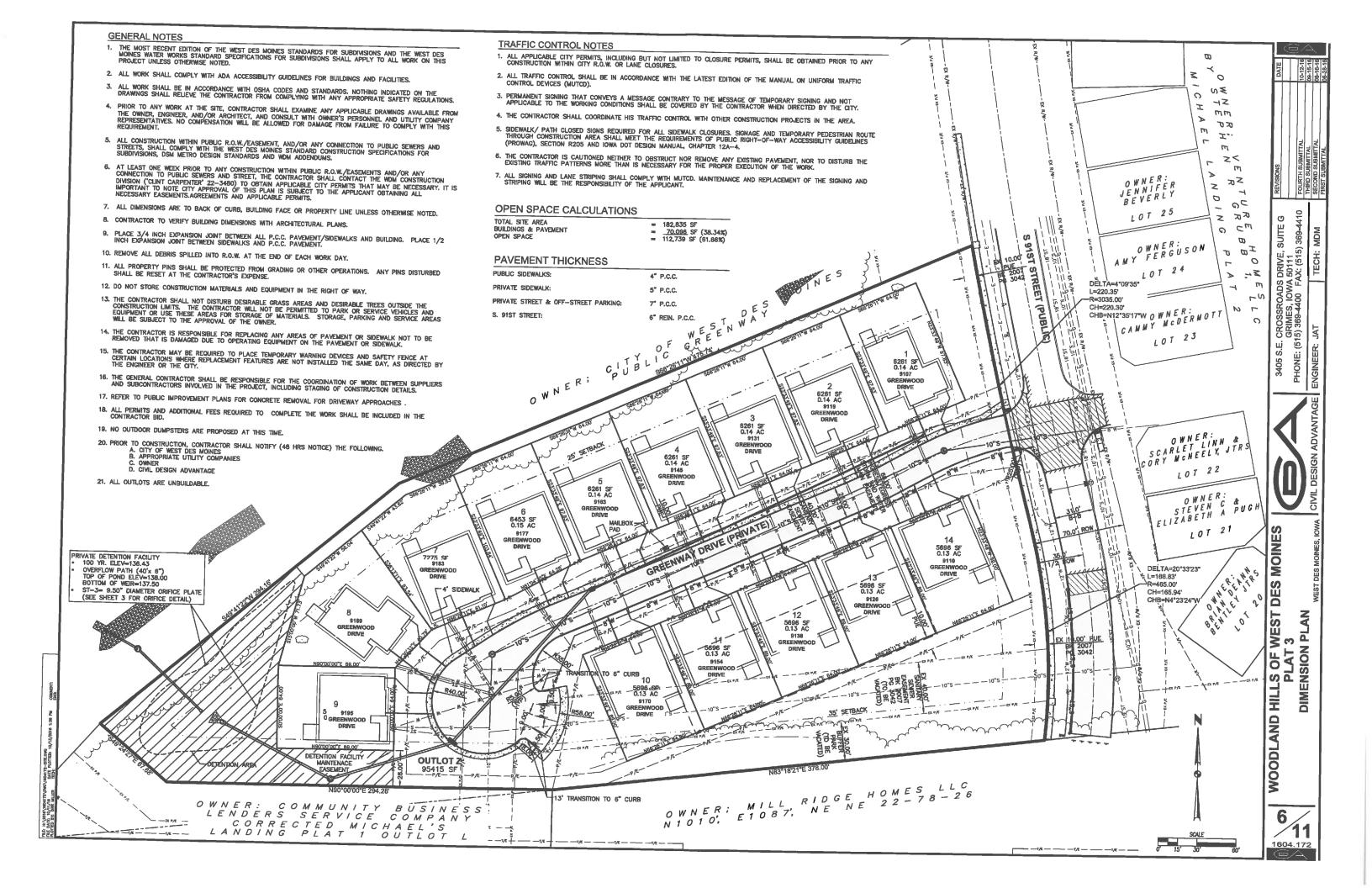
- THE CONTRACTOR SHALL CONFINE HIS GRADING OPERATIONS TO WITHIN THE PROPOSED AND EXISTING RIGHT OF WAY, CONSTRUCTION LIMITS AND EASEMENTS SHOWN ON THE PLANS.
- 8. SPECIAL CARE SHALL BE TAKEN WHEN FORMING AT INTERSECTIONS SO THE PROFILES SHOWN ON THE PLANS AND THE ELEVATIONS SHOWN ON THE INTERSECTION DETAILS ARE OBTAINED. SHORT LENGTHS OF FORMS OR FLEXIBLE FORMS MAY BE NECESSARY AT THESE LOCATIONS.
- 9. TO OBTAIN THE CORRECT FORM CRADES AT LOW POINTS WHERE INTAKES ARE LOCATED, THE CONTRACTOR MUST EXERCISE ADDITIONAL CARE WHEN PAVING FULL WIDTH PAVEMENTS. THIS MAY REQUIRE POURING ONE HALF OF THE PAVEMENT AT AT TIME OR OTHER METHODS APPROVED BY THE ENGINEER.
- 10. THE CONTRACTOR MAY BE REQUIRED AS DIRECTED BY THE CITY, TO PLACE TEMPORARY WARNING DEVICES AND SAFETY FENCE AT CERTAIN LOCATIONS WHERE REPLACEMENT FEATURES ARE NOT INSTALLED THE SAME DAY. THIS WILL BE INCIDENTAL TO THE BID ITEM TRAFFIC CONTROL.
- 11. THE CONTRACTOR IS REQUIRED TO BE FAMILIAR WITH AND COMPLY WITH OSHA STANDARDS. NOTHING WITHIN THESE PLANS SHALL RELIEVE THE CONTRACTOR OF THIS REQUIREMENT.
- 12. PLAN AND PROFILE SHEETS INCLUDED IN THE PROJECT ARE FOR THE PURPOSE OF ALIGNMENT, LOCATION AND SPECIFIC DIRECTIONS FOR WORK TO BE PERFORMED UNDER THIS CONTRACT. IRRELEVANT DATA ON THESE SHEETS IS NOT TO BE CONSIDERED A PART OF THIS CONTRACT.
- 13. ALL MATERIAL TESTING SHALL BE CONSIDERED INCIDENTAL TO OTHER CONSTRUCTION.
- 14. ALL CONNECTIONS TO EXISTING PUBLIC STORM AND SANITARY SEWER STRUCTURES SHALL BE CORE DRILLED.
- 15. ALL CONSTRUCTION WITHIN PUBLIC R.O.W./EASEMENTS AND/OR ANY CONNECTIONS TO PUBLIC SEWERS AND STREETS SHALL COMPLY WITH THE WEST DES MOINES STANDARD CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS AND THE DES MOINES METROPOLITAN DESIGN STANDARDS MANUAL WITH WEST DES MOINES ADDENDA.
- 16. SANITARY SEWER AND WATER MAIN DESIGN WITHIN THIS PLAN SET ARE INTENDED TO COMPLY WITH THE TEN STATES STANDARDS.

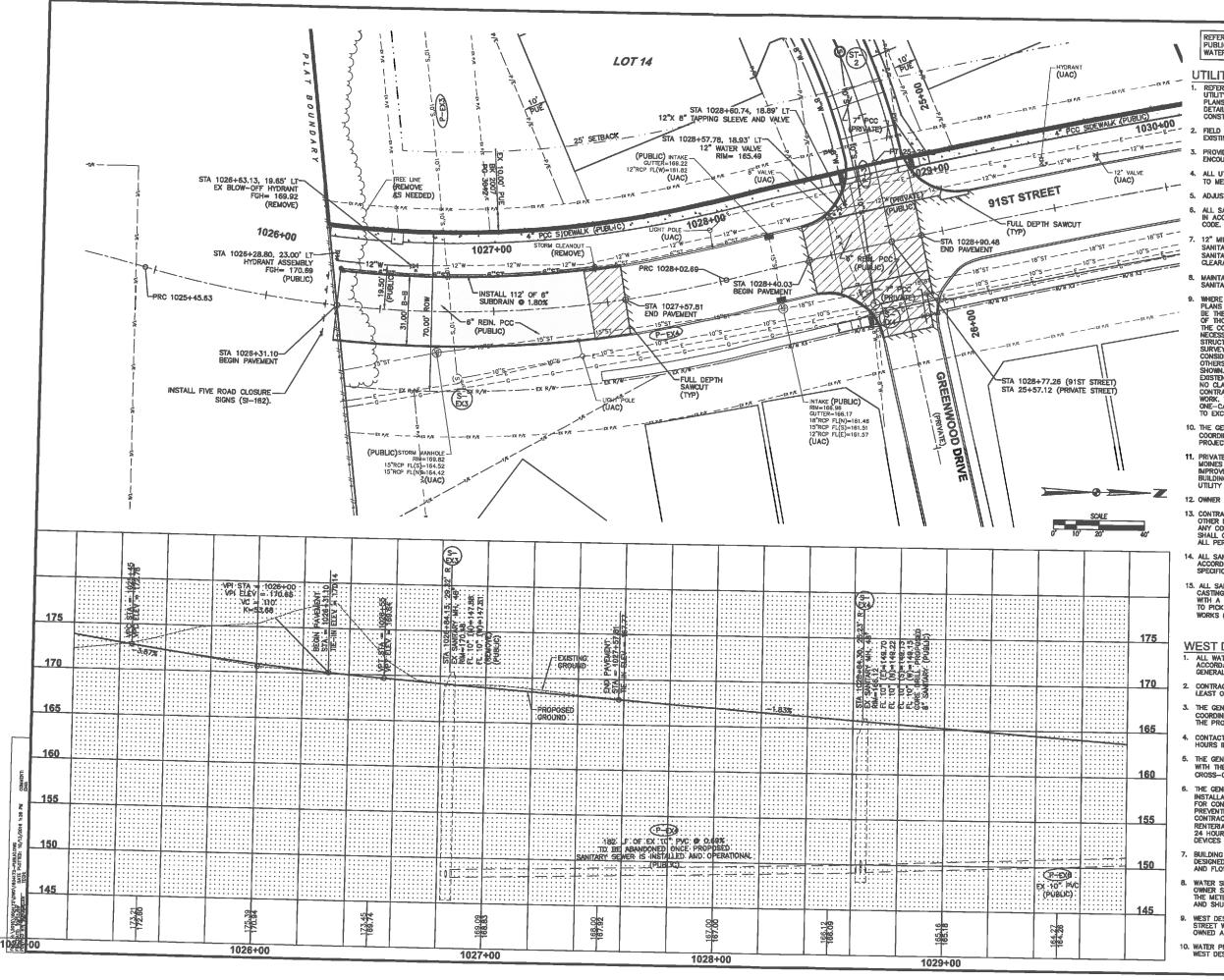
- 17. FOR MAINLINE PAYING, THE CONTRACTOR SHALL SUBMIT THE PCC MIX SOURCE(S) TO THE WEST DES MOINES PUBLIC WORKS DEPARTMENT (CLINT CARPENTER 222-3480) A MINIMUM OF 24 HOURS PRIOR TO PLACEMENT. THE CONTRACTOR SHALL USE THE SAME PCC MIX SOURCE FOR A MINIMUM OF 500 CUBIC YARDS OF CONTINUOUS
- 18. IF ADDITIONAL PAVEMENT REMOVAL IS REQUIRED OTHER THAN A STANDARD BOX OUT, FULL PANEL REMOVAL WILL BE REQUIRED. NO HALF PANEL REMOVAL WILL BE ALLOWED.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE WEST DES MOINES WATER WORKS AND CITY'S CROSS-CONNECTION CONTROL/CONTAINMENT PROGRAM.
- 20. ALL PUBLIC SEWERS CONSTRUCTED AS PART OF THIS PLAT SHALL BE TELEVISED AS PART OF THE FINAL INSPECTION. CONTACT WDM PUBLIC WORKS (RON WIESE 222-3480) 48-HOUR IN ADVANCE TO SCHEDULE TELEVISING.
- CONDUCT OPERATIONS SO THAT SLURRY FROM CONCRETE CUTTING AND/OR GRINDING ACTIVITIES DOES NOT DISCHARGE TO STORM SEWER OR DRAINAGEWAYS.
- 22. ROTATE ECCENTRIC CONE SECTIONS ON ALL MANHOLES NEAR SIDEWALKS TO MAXIMUM DISTANCE BETWEEN MANHOLE
- 23. CONTACT PERSON RESPONSIBLE FOR ENSURING MUD AND ROCK ARE CLEANED OFF THE STREETS AND FOR INSTALLATION, PERIODIC CHECKING, AND REINSTALLATION OF EROSION CONTROL MEASURES IS:
- 24. COORDINATE STAGING AND TRAFFIC CONTROL WITH WDM EMERGENCY SERVICES.
- 25. LANE CLOSURE NOTICES MUST BE SUBMITTED TO CITY OF WDM PUBLIC WORKS FOR APPROVAL A MINIMUM OF 48 HOURS IN ADVANCE OF CLOSURE

QUANTITIES,

WOODLAND







REFER TO SEPARATE PUBLIC IMPROVEMENT PLANS FOR PUBLIC SANITARY SEWER, PUBLIC STORM SEWER, PUBLIC WATER MAIN AND PUBLIC STREET INFORMATION.

UTILITY NOTES

- REFER TO MECHANICAL ELECTRICAL AND PLUMBING PLANS FOR UTILITY SERVICE SIZES AND EXACT LOCATIONS. REFER TO ELECTRICAL PLANS FOR ELECTRIC AND TELEPHONE SERVICE CONSTRUCTION DETAILS. REFER TO MECHANICAL PLANS FOR GAS SERVICE
- FIELD VERIFY ELEVATIONS AND LOCATIONS OF ALL CONNECTIONS TO EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- PROVIDE TEMPORARY SUPPORT FOR EXISTING UTILITY LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION UNTIL BACKFILLING IS COMPLETE
- ALL UTILITIES SHALL BE STUBBED TO 5 FEET FROM BUILDINGS. REFER TO MEP PLANS FOR DESIGN FROM 5' OUTSIDE OF BUILDING FACE.
- 5. ADJUST ALL MANHOLES AND INTAKES TO FINISHED GRADES.
- 6. ALL SANITARY SEWER AND WATER SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF WEST DES MOINES PLUMBING CODE.
- 12" MINIMUM VERTICAL CLEARANCE BETWEEN STORM SEWER AND SANITARY SEWER PIPES. 18" MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY SEWER AND WATER MAIN. 18" MINIMUM VERTICAL CLEARANCE BETWEEN STORM SEWER AND WATER MAIN.
- MARTAIN A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATER MAINS.
- 9. WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY, IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK. THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT 800-292-8898 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT. TO EXCAVATING ANYWHERE ON THE PROJECT.
- 10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK OF ALL SUBCONTRACTOR(S) INVOLVED IN THE
- 11. PRIVATE UTILITIES TO BE INSTALLED PER THE CITY OF WEST DES MOINES STANDARD CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE 2012 UNIFORM PLUMBING CODE. CONTACT BUILDING INSPECTION A MINIMUM OF 24 HOURS IN ADVANCE FOR UTILITY INSTALLATION INSPECTIONS.
- 12. OWNER IS RESPONSIBLE FOR MAINTENANCE OF PRIVATE UTILITIES.
- 13. CONTRACTOR SHALL PREVENT ENTRY OF MUD, DIRT, DEBRIS AND OTHER MATERIAL INTO NEW AND EXISTING SEWER SYSTEMS, SHOULD ANY CONTAINANTION OCCUR DURING CONSTRUCTION, THE CONTRACTOR SHALL CLEAN AT NO COST TO THE OWNER, INSTALL SILT FENCE AT ALL PERMANENT STORM SEWER INLETS.
- 14. ALL SANITARY SEWER SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE WOM STANDARD CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS.
- 15. ALL SANITARY SEWER MH'S WITHIN PAVING SHALL HAVE A 3 PIECE CASTING. IF AN EXISTING PUBLIC SANITARY SEWER MH IS REPLACED WITH A 3 PIECE CASTING PUBLIC WORKS WILL NEED TO BE CONTACTED TO PICK UP THE OLD CASTING. CONTACT WEST DES MOINES PUBLIC WORKS (RON WIESE 222-3480).

WEST DES MOINES WATER WORKS NOTES

- ALL WATER WORK, PUBLIC OR PRIVATE, SHALL BE DONE IN ACCORDANCE WITH SUDAS AND WEST DES MOINES WATER WORKS GENERAL SUPPLEMENTAL SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY WEST DES MOINES WATER WORKS AT LEAST ONE WEEK PRIOR TO CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF WORK OF ALL SUBCONTRACTOR(S) INVOLVED IN THE PROJECT.
- CONTACT BUILDING INSPECTION (515-222-3630) A MINIMUM OF 24 HOURS IN ADVANCE FOR PRIVATE UTILITY INSPECTIONS.
- 5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE WEST DES MOINES WATER WORKS AND CITY'S CROSS-CONNECTION CONTROL/CONTAINMENT PROVISION.
- 6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION OF AN APPROVED BACKFLOW PREVENTION ASSEMBLY(S) FOR CONTAINMENT IN ALL NEW CONSTRUCTION. BACKFLOW PREVENTION TO BE INSTALLED PER CITY ORDINANCE 1287, 54–1988. CONTRACTOR SHALL NOTIFY WEST DES MONES WATER WORKS, RALPH RENTERIA, ENGINEERING TECHNICIAN (515)—222—3465) A MINIMUM OF 24 HOURS AFTER INSTALLATION AND TESTING OF ALL BACKFLOW DEVICES TO SCHEDULE FINAL INSPECTION.
- BUILDING FIRE SPRINKLER AND FIRE ALARM SYSTEM SHALL BE DESIGNED PER WEST DES MOINES FIRE CODE. SCHEDULE A PRESSURE AND FLOW TEST PRIOR TO DESIGNING FIRE SUPPRESSION SYSTEMS.
- 8. WATER SHALL BE PROVIDED TO PROPERTY VIA PRIVATE WATER MAIN, OWNER SHALL ALLOW WEST DES MOINES WATER WORKS ACCESS TO THE METERS AND VALVES AS NEEDED FOR EMERGENCY MAINTENANCE AND SHUT OFF IN THE EVENT OF NON-PAYMENT.
- WEST DES MOINES WATER WORKS WILL TAKE OWNERSHIP OF S 91ST STREET WATER MAIN. GREENWOOD DRIVE MAIN WILL BE PRIVATELY OWNED AND MAINTAINED.
- 10. WATER PRESSURE IN THIS AREA IS SUBJECT TO CHANGE. CONTACT WEST DES MOINES WATER WORKS FOR INFORMATION.

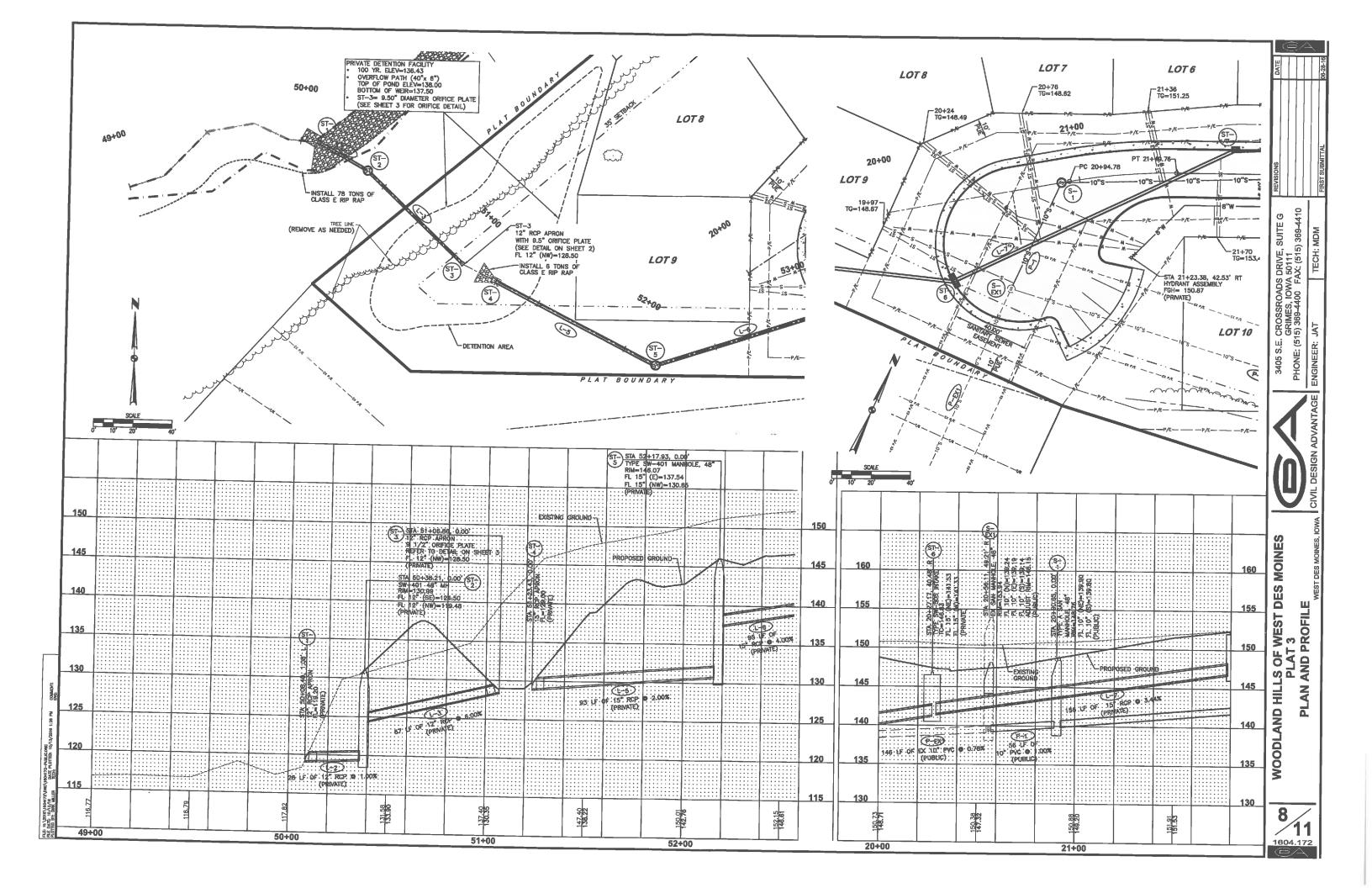
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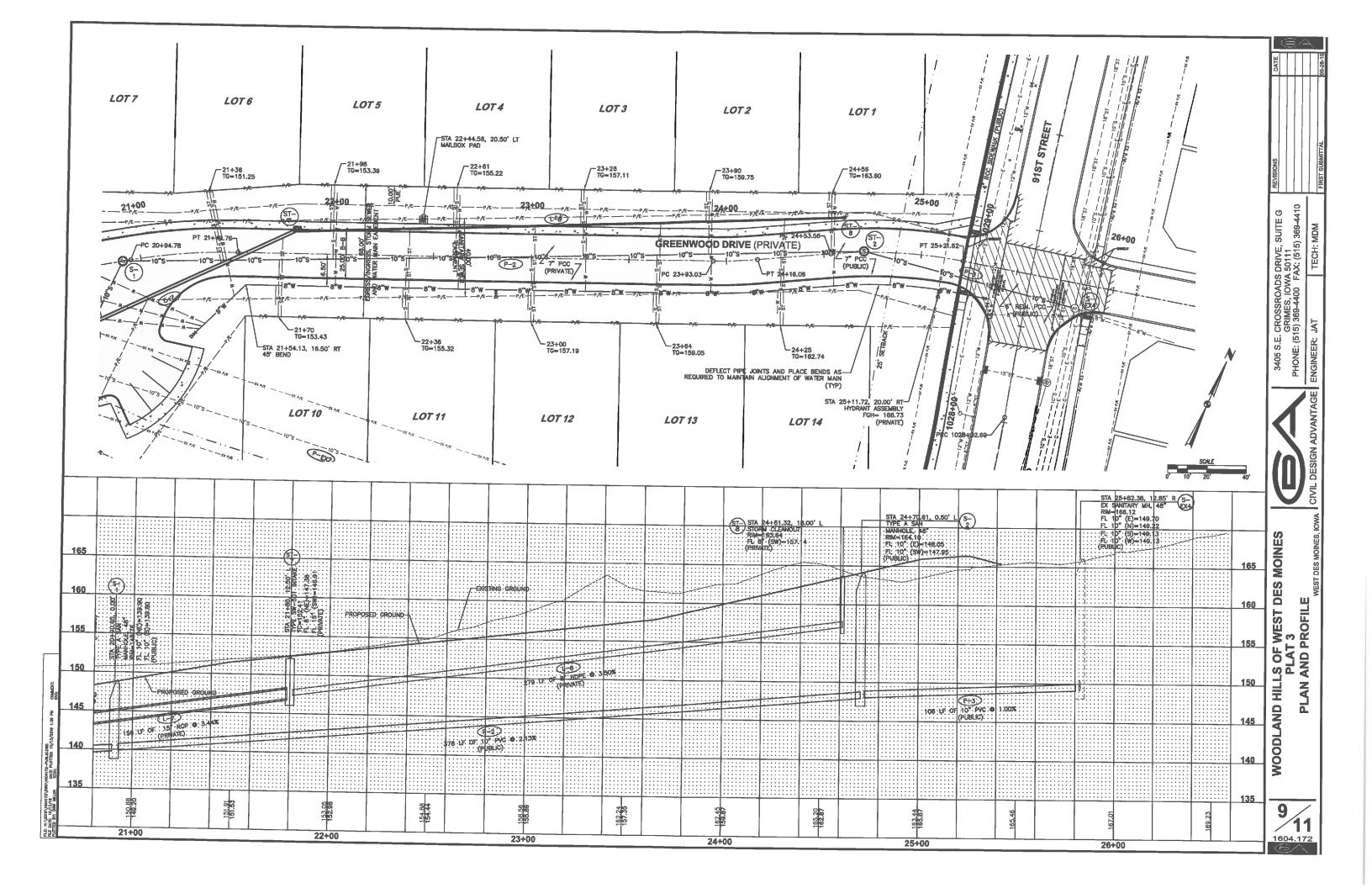
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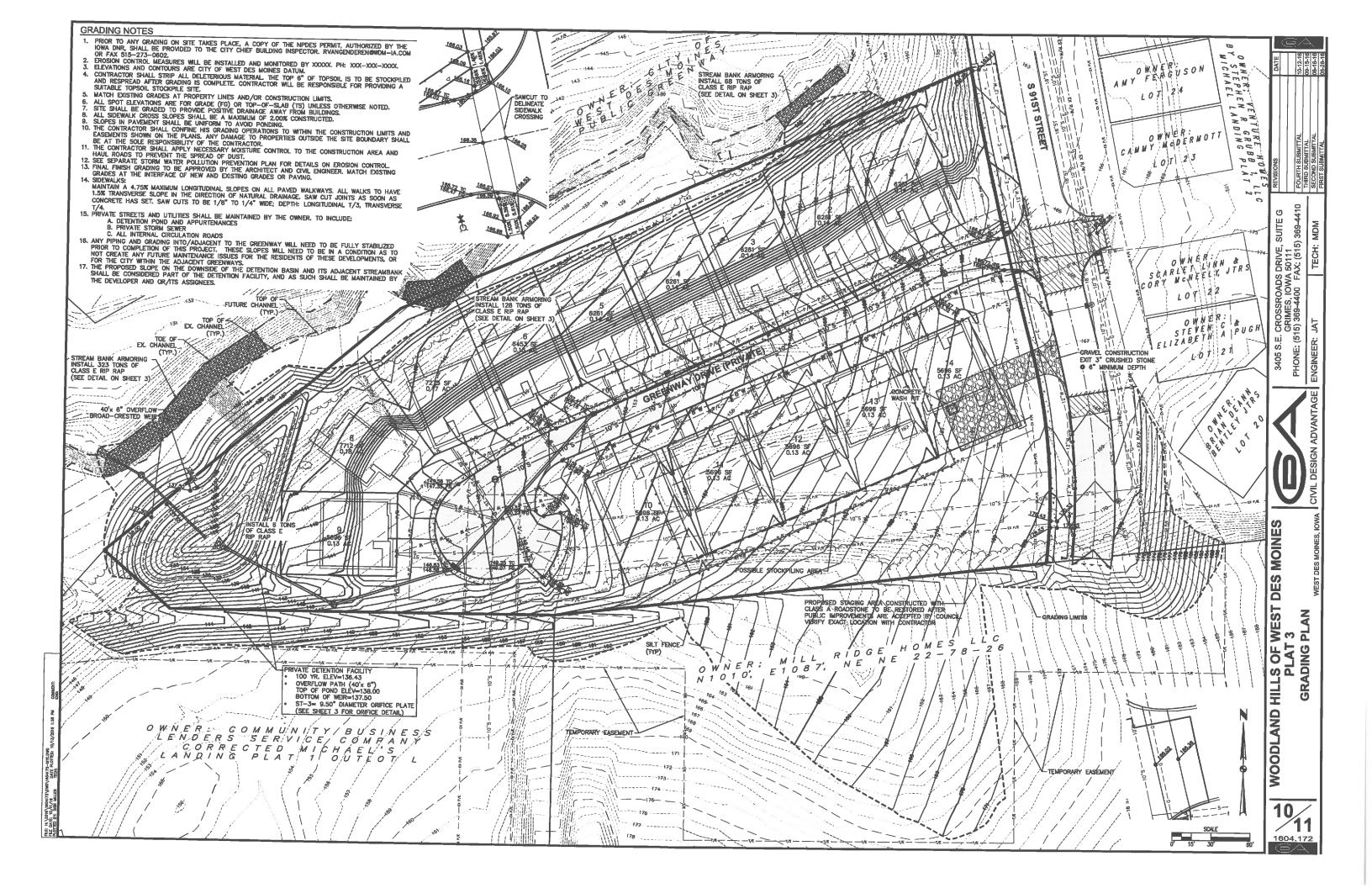
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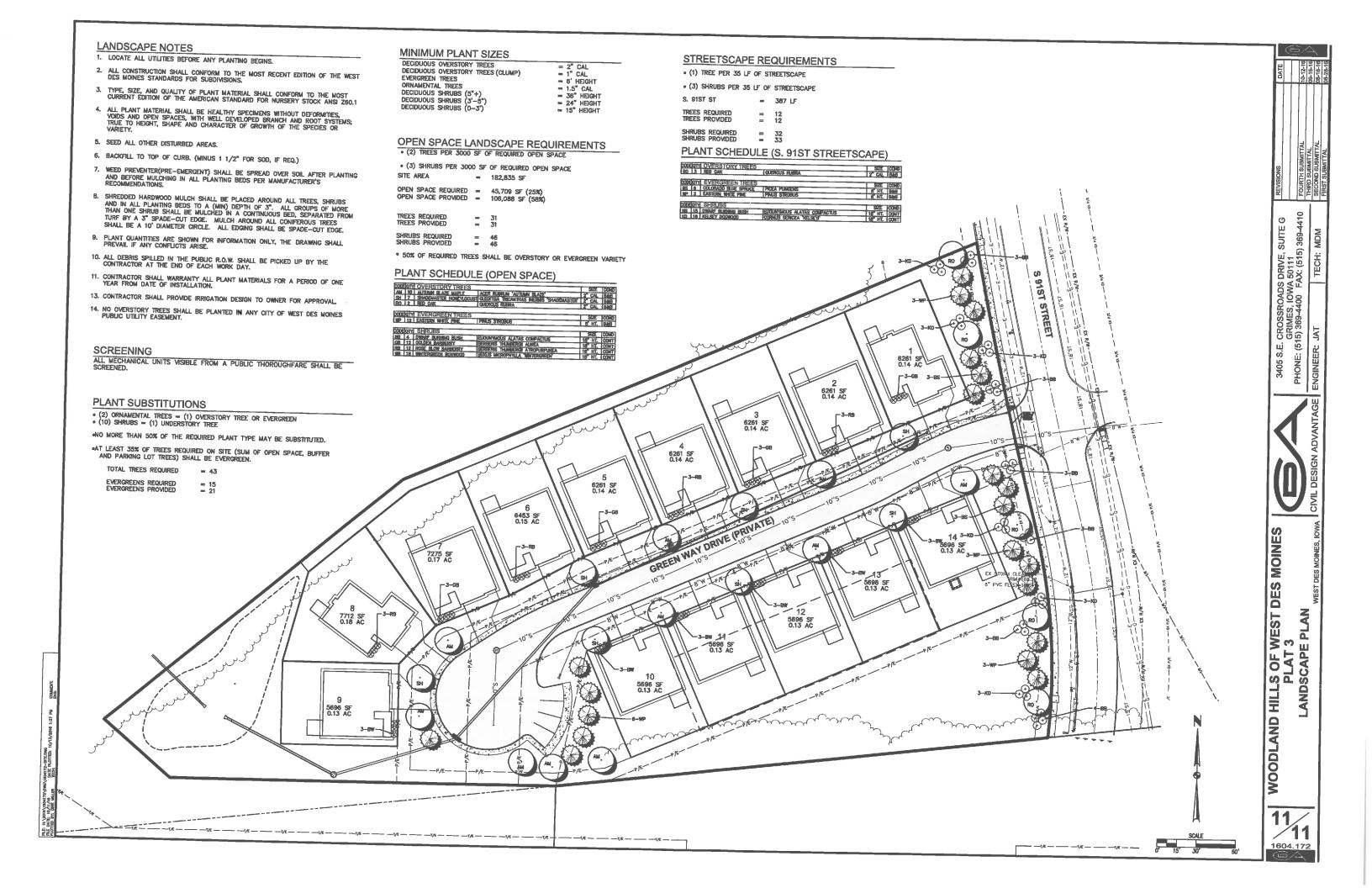
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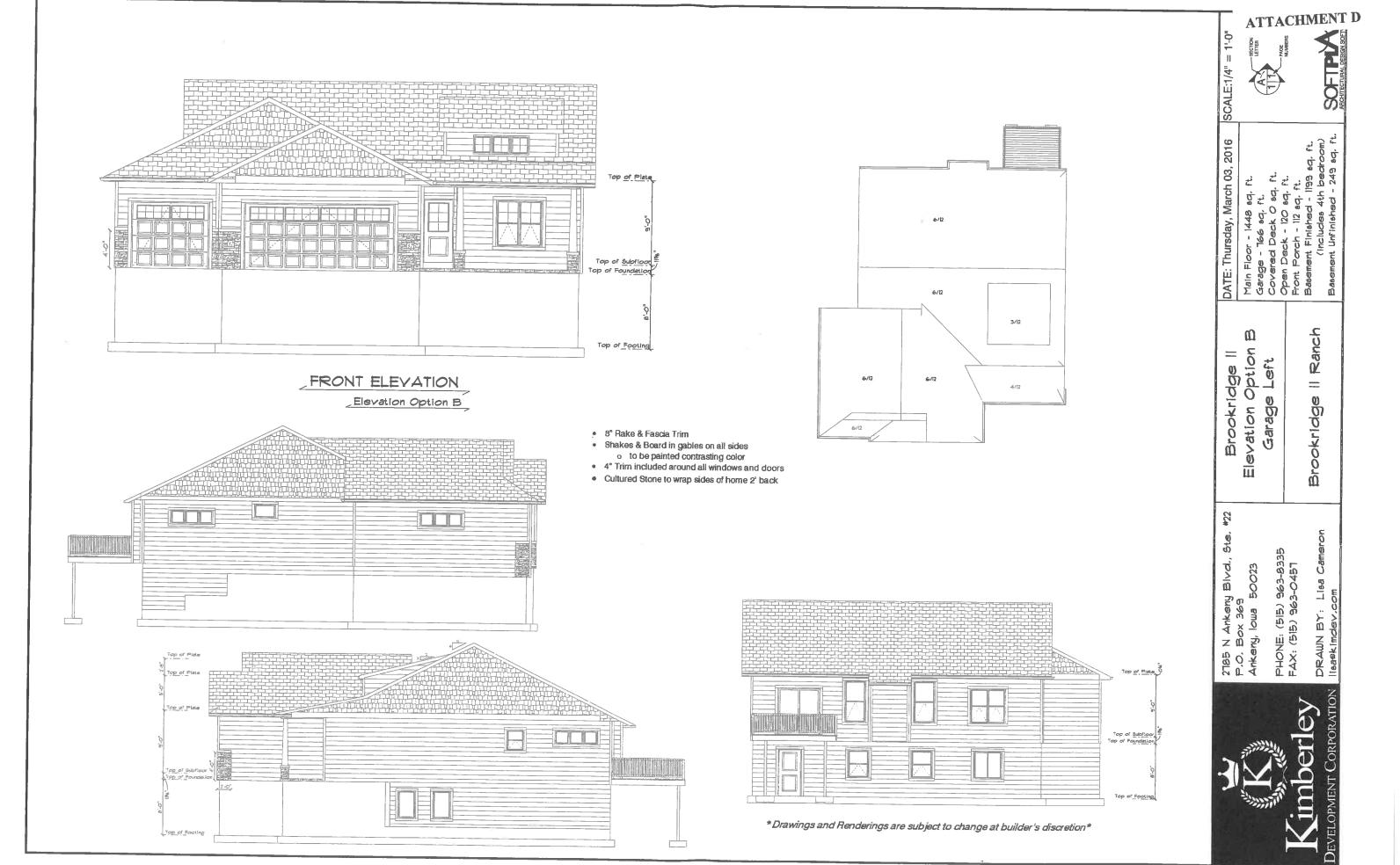
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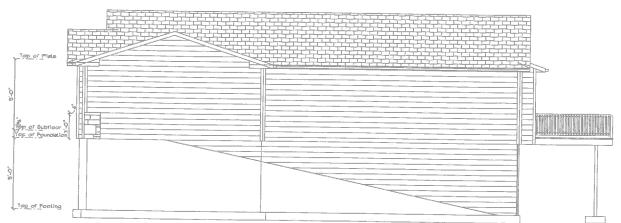




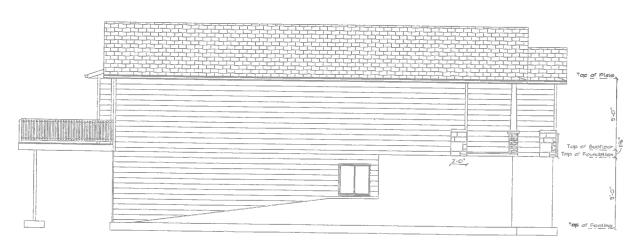


REAR ELEVATION

FRONT ELEVATION

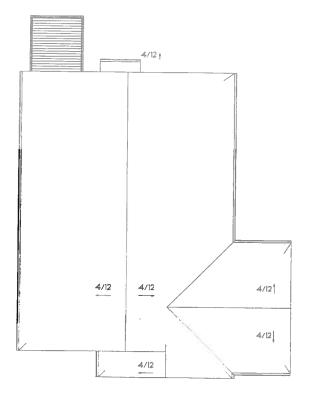


RIGHT ELEVATION



• 6 Flaku & Fascia fren

- Shakes & Board in gables on all ades
 to be painted contrasting color
 4' Train included around all windows and doors.
- Cultared Stone to wrap sides of home 2 back.



BIRD'S EYE PLAN



DATE: Wednesday, June 01, 2016

SCALE: 1/4" =

Right

Ranch

Crest

Oak

RODUCTION, USE, OR DISCLOSURE SED OR IMPLIED TO STRUCTRURA

SOFTPIXA ARCHIECTURAL DEPENDE

DEVELOPMENT CORPORATION

LEFT ELEVATION

FRONT ELEVATION



- 8' Hake & Fesce Tren
- Shakes & Board in gables on all sides
 to be painted contrasting color
 4' Thin included around at windows and doors
- Cultaried Stone to wrap sides of home 2 hards.

REAR ELEVATION



SCALE:1/4" DATE: Friday, March 04, 2016

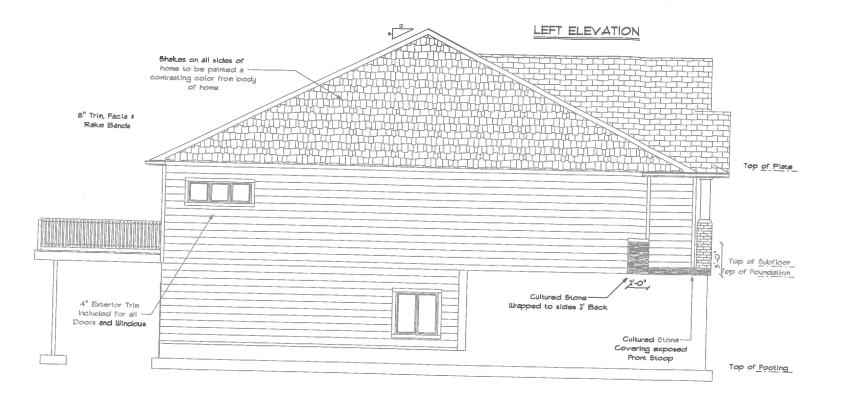
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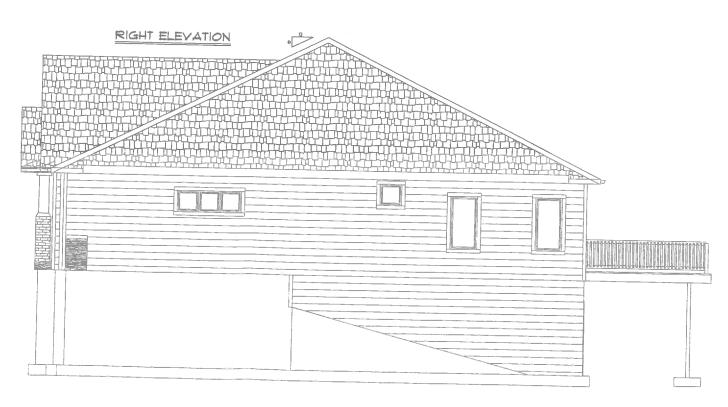
Elevation Option Garage Right

Melrose

Elevation Views

2785 N Ankeny Blvd., S P.O. Box 369 Ankeny, lowa 50023 PHONE: (515) 963-8335 FAX: (515) 963-0457





4 Elevation Option , Garage Right Elevation Views Melrose

Lisa Cameron

2785 N Ankeny Blvd., Ste. P.O. Box 369 Ankeny, lowa 50023 PHONE: (515) 963-8335 FAX: (515) 963-0451 DRAWN BY: lisa@kimdev.co

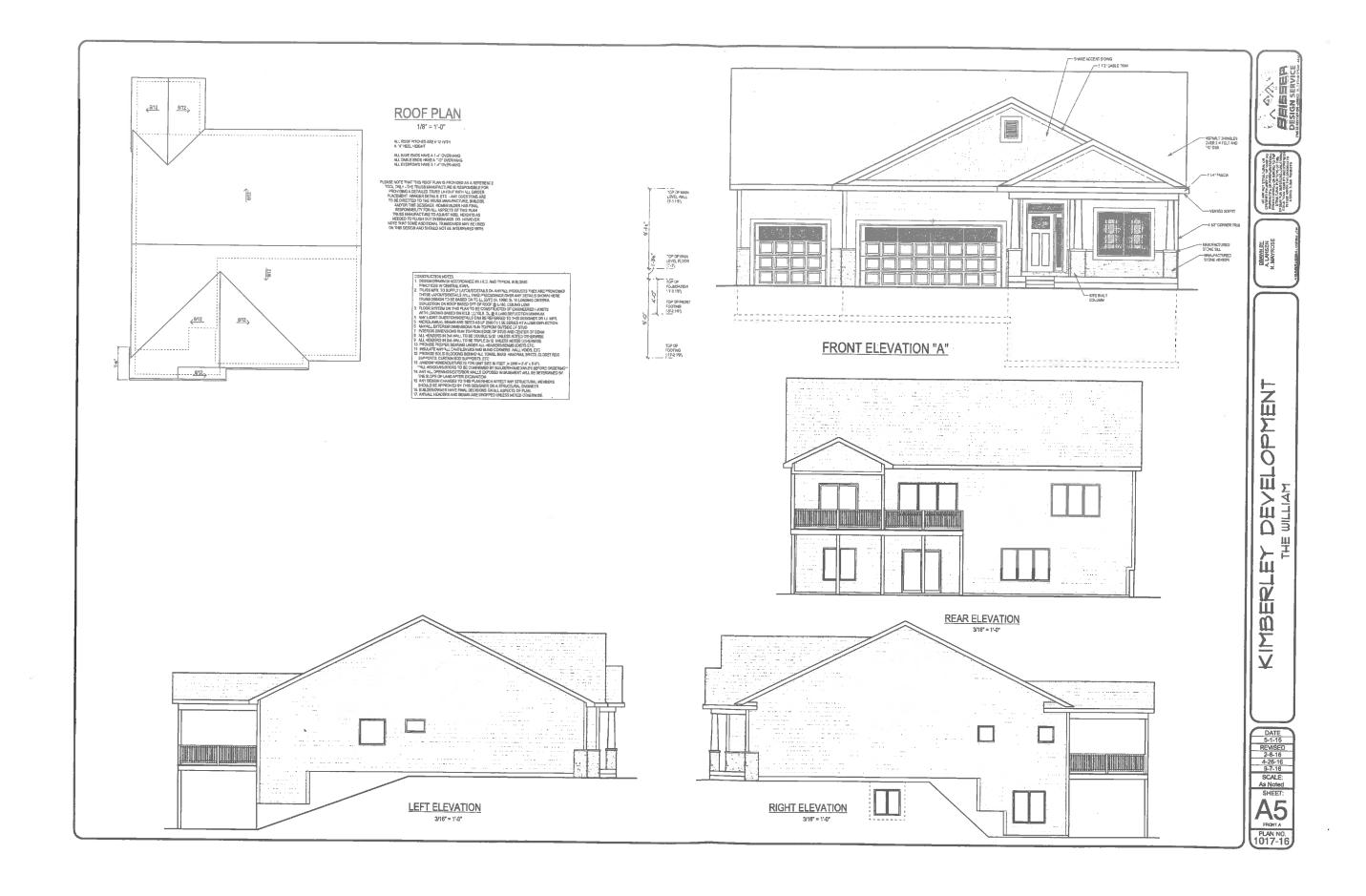


SCALE:1/4" = 1'-0"

DATE: Friday, March 04, 2016

#22

ad, ft. droom) 2 aq, ft.



FRONT ELEVATION

8" Rake & <u>Facia</u> Trim
 Batten & Board in gables on all sides

o to be painted contrasting color 4" Trim included around all windows and doors

Cultured Stone to wrap sides of home 2' back



REAR ELEVATION



Drawings and Renderings are subject to change at builder's discretion

Ranch Option The Manor Garage Elevation

#22

Ste.

2785 N Ankeny BIVd., 6 P.O. Box 369 Ankeny, lowa 50023

DATE: Friday, March 04, 2016

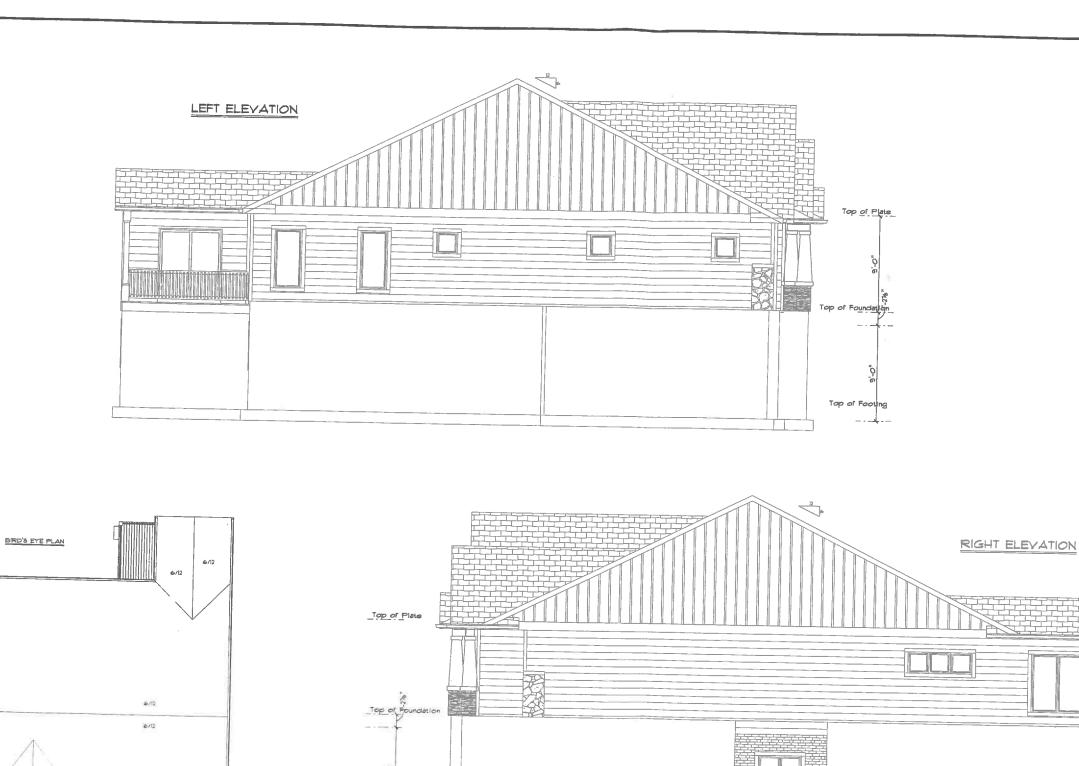
Elevations (X) (Q) (A) 40 Front

PHONE: (515) 963-8335 FAX: (515) 963-0457

E E



SCALE:1/4" = 1'-0"





PHONE: (515) 963-8335 FAX: (515) 963-0451

DRAWN BY: Lisa Cameron lisa@kimdev.com

2185 N Ankeny Blvd., Ste. P.O. Box 369 Ankeny, lowa 50023

The Manor Ranch Elevation Option A Garage Left

Side Elevations

Main Floor - 1879 eq. ft. Garage - 659 eq. ft. Covered Deck O eq. ft. Open Deck - 98 eq. ft. Front Porch - 75 eq. ft. Basement Finished - 1243

d - 1243 sq. ft. 4th bedroom) sq - 636 sq. ft.

SCALE:1/4" = 1'-0"

DATE: Friday, March 04, 2016